

FD-878

USSR/Chemistry - Chemical engineering.

Card 1/1

Pub.50 - 11/24

Author

Title

: Fastovskiy, V. G., Prof, Dr Tech Sci; Petrovskiy, Yu. V.

: Study of columns containing a multi-layer net filling

Periodical : Khim. prom., No 6, 357-364 (37-44), Sep 1954

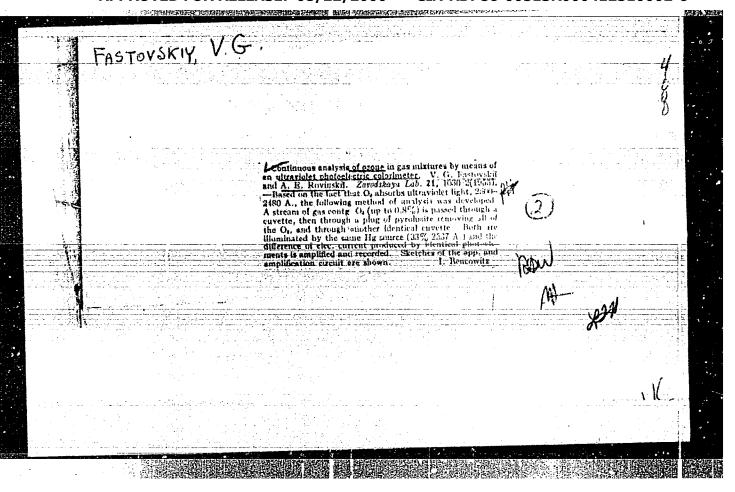
Abstract

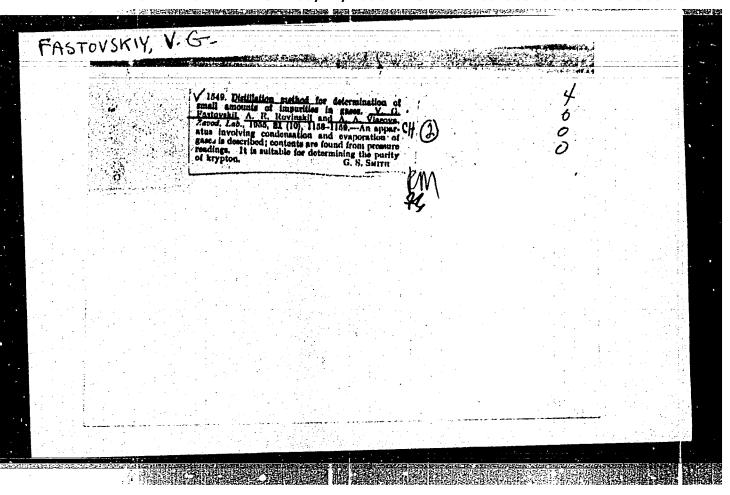
: Investigated experimentally the performance with respect to mass transfer and heat transfer of columns containing a net filling consisting of 1-7 layers. Compared the performance data with those obtained on columns containing other types of fillings (ceramic rings, saddle-shaped elements). Found that by using a five-layer net filling an optimum reduction of the dimensions of the column is obtained. Because of the superior performance obtained with this type of filling, recommend its use in industrial distillation and absorption columns. Twelve references,

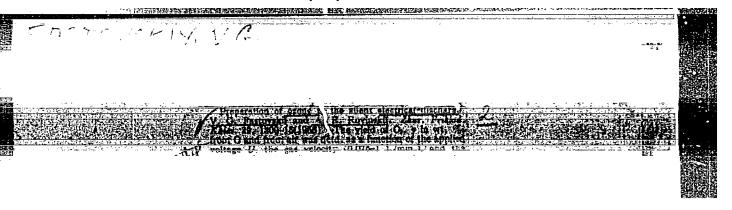
5 USSR, all since 1940. Six figures, 9 graphs, 6 tables.

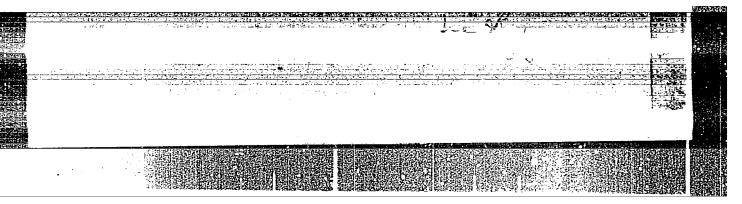
Institution:

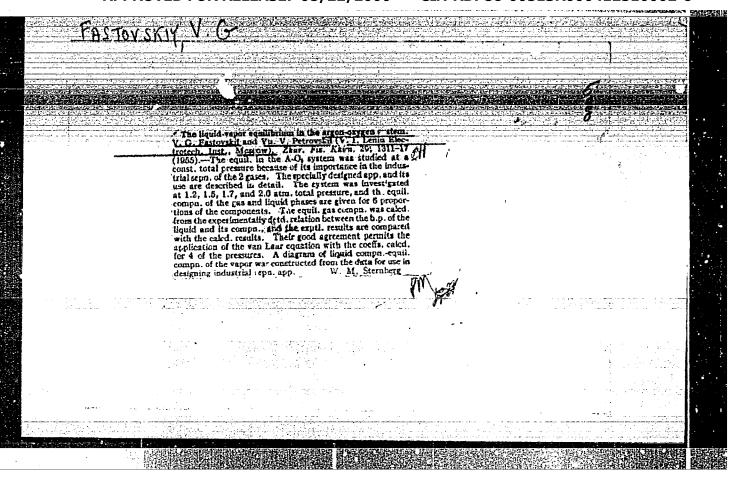
Submitted

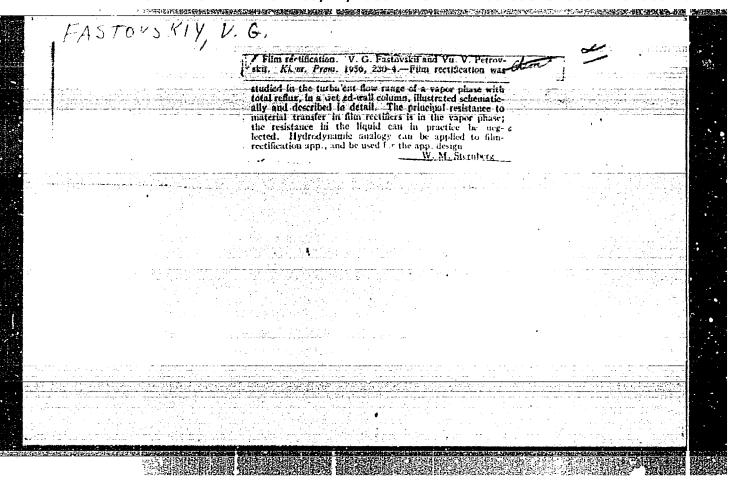












FASTOVSKIY, V.G., doktor tekhnicheskikh nauk; ROVINSKIY, A.Te., kandidat tekhnicheskikh nauk.

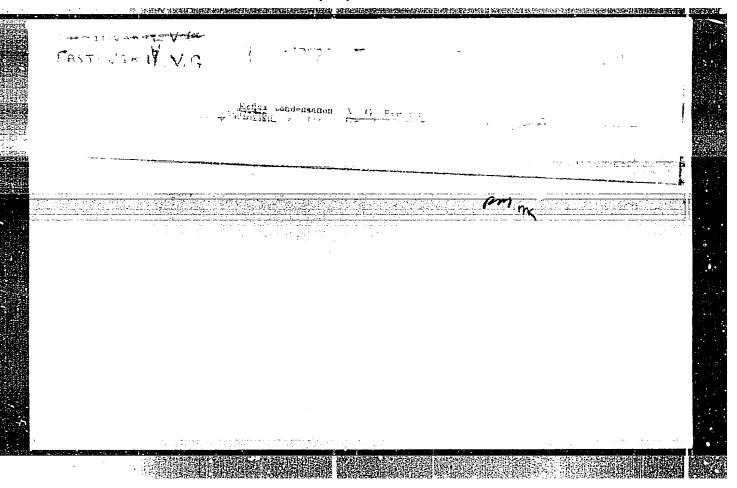
Improving the cooling of mercury-arc rectifiers. Vest.elektropres. 27 no.6:56-59 Je '56. (MIRA 10:8)

1. Vsesoyusnyy elektrotekhnicheskiy institut imeni Lenina. (Mercury-arc rectifiers)

FASTOVSKIY, V.G.; PETROVSKIY, Yu.V.

Experimental study of counterflow condensation. Zhur.prikl.khim.
29 no.5:723-730 My '56. (MLRA 9:8)

(Distillation, Fractional)



FASTOVSKIY, V.G.

USSR/Chemical Technology. Chemical Products and Their

the arm interested with the company of the company

I-10

Application. Preparation and separation of gases.

Abs Jour

: Referat Zhur- Khimiya, No 4, 1957, 12716

Author

: Fastovskiy V.G., Rovinskiy Λ.Ye.

Title

: Preparation of Ozone by Silent Electric Discharge

Orig Pub

: Zh. prokl. khimii, 1956, 29, No 9, 1309-1315

Abstract

: Experimental investigation of the process of formation of ozone (I) in tubular, glass ozone generators (diameter of inner electrode 51 km, average width of discharge gap 3.2 km). Determined were the contents of I in dry 02 and air, on inner electode voltage of U = 8 ÷ 12.5 KV and exposure T up to 125 seconds. It was found that the process of ozone generation is defined by a kinetic equation derived on the assumption that rate of formation of I is constant while rate of decomposition of I is proportional to its concentration. Given are the values of maximal concentrations of I and constants of the kinetic equation

Card 1/2

- 147 -

Application - Chemical Products and Their

I-10

Application. Preparation and separation of gases.

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 12716

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

for the investigated voltage levels; at 12.5 Kv and ~= 2 minutes, concentration of I attained: in 02, over 6% by weight and in air 2.75% by weight. On o onation of 02, saturated with moisture, concentration of I decreases (all other conditions being the same), by 77-90%. Included are a diagram and description of an ozonator which makes it possible to obtain > 70 liter/hour of gas with a content of I > 5.5% by weight. Yield of I, on the basis of power consumption, obtained with this apparatus at the highest concentrations of I, is of ~ 14 g I per kilowatt hour; with decrease in concentration of I and decrease in U, the yield of I increases appreciably.

CIA-RDP86-00513R000412510002-6 "APPROVED FOR RELEASE: 08/22/2000

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 147 - 10/35

Authors

Pastovskiy, V. G., and Petrovskiy, Yu. V.

Title

: Investigation of liquid-vapor equilibrium in an argon-nitrogen system. Part 2

Periodical : Zhur. fiz. khim. 30/1, 76-78, Jan 1956

Abstract

: The liquid-vapor phase equilibrium in an argon-nitrogen system was investigated at pressures of 912, 1520, 2280 and 3040 mm of mercury column (1,2; 2.C; 3.0 and 4.0 atm. abs.). Data are given on the equilibrium compositions of liquid and vapor and the corresponding temperatures for five different mixtures. The components of the equilibrium vapor were computed on the basis of the boiling point/liquid component relation. The application of the van Laar equation with coefficients the values of which were determined for four investigated pressure, is discussed. Six references: 4 USSR, 1 Germ. and 1 Eng. (1916-1955). Tables; graphs.

Institution:

Electrical Engineering Inst. im. V. I. Lenin, Moscow

Submitted

May 3, 1955

经的转移。1855年8月 1866年1870年 **了**经验的基础的现在,我们将我们都因为他们等的经验的现在分词的特别人类的"同时在不分,这个生态"。 1967年的被视时的现在 **网络拉斯特**

FASTOVSKIY, VIG

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.

B-8

Physicochemical analysis. Phase transitions

Abs Jour : Referet Zhur - Khimiya, No 4, 1957, 11157

Author : Fastovskiy Y.G., Petrovskiy Yu.V.

: Investigation of Liquid-Vapor Equilibrium in the System O2-Kr. Title

Orig Pub : Zh. fiz. khimii, 1956, 30, Wo 3, 589-592 (English summary)

Abstract : By means of the previously described (RZhKhim, 1956, 42596) experimental unit and operating procedure data have been secured concerning the equili-

brium composition of liquid and wapor, at different temperatures, in the case of five different 0_2 -Kr mixtures. In the coordinates $\ln \pi$ (1 --absolute pressure in mm Hg), 1/T, the experimental points for each mixture fit straight lines located in intermediate positions between lines of purs components. From these graphs were plotted T - φ (x) curves, where x (respectively, y) --mole \$ 02 in liquid (in vapor), at absolute pressures 2128, 2230, 3700 and 5170 mm Hg (0.5, 2.0, 4.0 and 6.0 kg/cm², excess). On the basis of calculated equilibrium compositions of vapor, $\mathbf{T} - \Psi(\mathbf{y})$ curves were plotted for the same pressures. Satisfactory agreement bet-

ween calculated and experimental values shows that the system under study,

Card 1/2

FASTGVSKIY, V. G.

"Experimental Data Obtained during the Boiling of a Number of Organic Liquids and Mixtures of them with Water."

report presented at the scientific and technical session on Heat Exchange during change of aggregate state of matter, Kiev 23-28 Sept 57.

All-Union Electro-Tech. Inst.

Fastouskiy, V.G.

AUTHORS:

Fastovskiy, V. G., Fetrovskiy, Yu. V.

64-8-7/19

TITLE:

Rectification Method for the Production of the Pure Krypton (Rektifikatsionnyy sposob polucheniya chistogo

kriptona).

PERIODICAL:

Khimicheskaya Promyshlennost!, 1957, Nr 8, pp. 28-32 (USSR)

ABSTRACT:

In the investigation of the conditions under which the solid phase in the oxygen-krypton-system is formed it was found that

no precipitation of the solid phase occurs at 1,5-2 atmospheric pressure. This admits the carrying out of the rectification of a rich concentrate at such a pressure and to obtain here a chemically pure krypton. Here a periodical rectification of a rich krypton concentrate (10% krypton) was carried out in the mounting-column at 2 atmospheric pressure and technically pure krypton (98-99% krypton) was obtained with 95-96% output. A scheme for an industrial plant for the rectification of a rich krypton concentrate was worked out here. This plant contains the prepurification of the concentrate from the hydrocarbon admixtures, drying and purification of the concentrate from CO₂, rectification with a production of the technically pure krypton as well

Card 1/2

一个经济中经济的企业的对象。这些国际经济的企业,这个企业,这个企业,但是不是一个企业,但是不是一个企业的,但是不是一个企业,这个企业的企业,这个企业,这个企业的

Rectification Method for the Production of the Pure Krypton

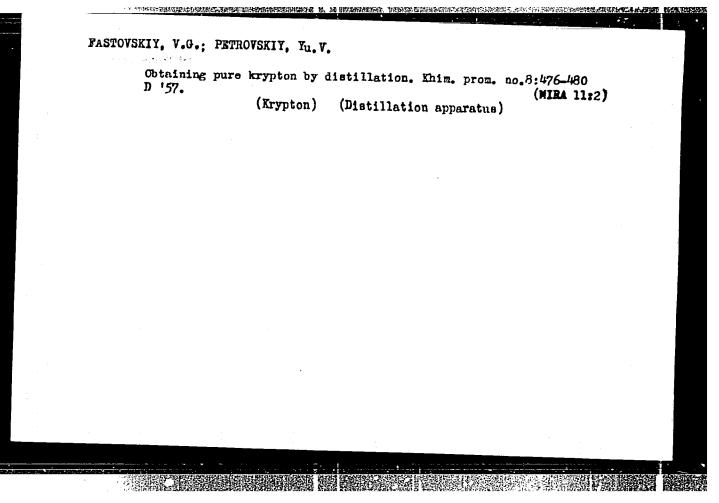
64-8-7/19

as a subsequent purification of the same from the oxygenand hydrocarbon admixtures in furnaces in order to obtain the pure krypton. A rectification plant for the production of a technically pure krypton was planned and built; as well as a device for the removal of oxygen and hydrocarbon admixtures and for the production of pure krypton. The plant which works 20,000 m3/hour. There are 6 figures, 1 table, and 10 references, 4 of which

AVAILABLE:

Library of Congress

Card 2/2



Fastovskiy, V.G.

USSR/Fluid Mechanics

Abs Jour: Ref Zhur Mekhanika, No 8, 1957; 9090

Author: Fastovskiy, V. G., Rovinskiy, A. Ye.

Title : Investigation of heat output in a spiral tube.

Orig Pub: Teploenergetika, 1957; No 1, 39-41.

Abstract: The effect of the curvature of the tube on the nature

of the heat emission during the flow of different fluids through a coil was studied. A schematic drawing and a brief description of the experimental apparatus is included. The experiments were performed for three different heat-carrying substances: water, transformer oil, and a mixture of transformer oil with dichlorethane.

The Reynolds Numbers ranged from 63 to 20,900. The ratio of the radius of the tube to the radius of curvature was equal to: 0.016, 0.029, 0.047, and the ratios of the length of the tube to its diameter were, respectively, equal to 580, 1410, and 218. An analysis

Card 1/3

a-U Electroteck Inst.

CIA-RDP86-00513R000412510002-6 "APPROVED FOR RELEASE: 08/22/2000

AUTHOR:

Fastovskiy, V.G., Professor, Doctor of Technical Sciences, and Rovinskiy, A.E., Candidate of Technical Sciences.

MARKETERNE DECEMBER WITHOUT STORY ST

· TITLE:

Evaporative cooling of mercury arc rectifiers. (Isparitel' noye okhlazhdeniye rtutnykh vypryamiteley.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry) 1957, Vol. 28, No. 4, pp. 50 - 51 (U.S.S.R.)

ABSTRACT:

At the present time mercury arc rectifiers are cooled by liquid circulating in a closed circuit with a circulating pump and heat exchanger. The most widely used heat transfer medium is transformer oil. Although it is a good insulator, transformer oil has the disadvantage of high viscosity and a low rate of heat transfer. Other fluids have been used but the complicated system is still required and therefore the system of evaporative cooling is of interest.

When evaporative cooling is used the body of the rectifier is surrounded by liquid which boils. The hot vapours pass through a pipe to a surface condenser and the condensate passes through another pipe to the bottom of the rectifier. The advantages of the system are that the heat transfer rate is high; the vapourisation temperature is constant so long as the pressure in the vapour space is constant; the condenser is small; natural circulation can be maintained

in the hermetically-sealed system.

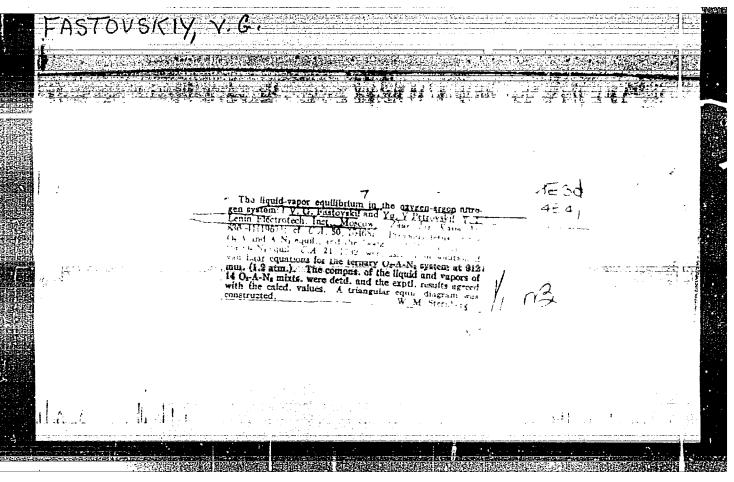
A high voltage mercury arc rectifier operates with a wall temperature of 20 - 24 °C and it is therefore necessary to

1997年 李明章 (1997年) 李明章 (1997年) 李明章 (1997年)

Evaporation cooling of mercury arc rectifiers. (Cont.)

use a cooling medium which boils in this temperature range at reduced pressure. Recommended substances are methylene chloride (CH₂Cl₂) and Freon-ll (C Cl₃F) the main physical properties of these substances are tabulated. The materials are compared in respect of their suitability for cooling rectifiers, and calculations of cooling surfaces and pipe diameters are made. The calculations show that the cooling system is simple and small. With Freon-ll the system can work at pressures close to atmospheric and the volume of vapour is smaller. The evaporative system can also be used for cooling low voltage mercury arc rectifiers and if necessary an aircooled heat exchanger can be used. For such a system methylene chloride is best as it boils at atmospheric pressure but Freon-ll can be used if the pressure in the system is about 1.78 atmospheres.

1 figure, no literature references.



CIA-RDP86-00513R000412510002-6 "APPROVED FOR RELEASE: 08/22/2000

FASTUVSKIY, V. G.

AUTHORS:

Fastovskiy, V. G., Petrovskiy, Yu. V. 76-10-22/34

DECEMBER TO THE PROPERTY OF TH

TITLE:

A Study of the Vapor-Liquid Equilibrium in the System Nitrogen-Methane (Issledovaniye ravnovesiya zhidkosti

i para v sisteme azot-metan).

PERIODICAL:

Zhurnal Fizioheskoy Khimii, 1957, Vol. 31, Nr 10,

pp. 2317-2321 (USSR)

ABSTRACT:

The phase equilibrium of liquid and vapor in the nitrogen-methane system at absolute pressures of 2, 5, 8, 11 and 16 kg/cm² was investigated. The data concerning the equilibrium compositions of liquid and vapor and the corresponding temperatures for seven different mixtures were obtained. On the strength of the boiling temperature on the liquid composition $T=\phi(x)$ found by experimental way the compositions of the equilibrium vapor computed which were compared to the experimental data. The fact that the computed data agree well with the experimental data admits the use of the van Laar equation with the coefficients which values are given for five pressures investigated. Data are given which facilitate the construction of the

CARD 1/2

A Study of the Vapor-Liquid Equilibrium in the System 76-10-22/34 Nitrogen-Methane

x-y-diagrams necessary for the computation of the rectification device. There are 2 figures, 4 tables, 5 Slavic references.

ASSOCIATION: Institute for Electrical Engineering imeni V.I. Lenin,

Moscow. (Elektrotekhnicheskiy institut im. V. I. Lenina,

CONTROL OF STREET, STR

Moskva)

AND SECTION OF THE PROPERTY OF

SUBMITTED: August 18, 1956

AVAILABLE: Library of Congress

CARD 2/2

FOTIN, V.P.; AKOPYAN, A.A., red.; ANDRIANOV, K.A., red.; BIRYUKOV, V.G., glavnyy red.; BUTKEVICH, Yu.V., zamestitel glavnogo red.; GRANOVSKIY, V.L., red.; KALITYYANSKIY, V.I., red.; KLYARFEL'D, B.N., red.; KRAPIVIN, V.K., red.; TIMOFFYEV, P.V., red.; FASTOVSKIY, W.G., red.; TSEYROV, Ye.M., red.; SHEMAYEV, A.M., red.; DEMKOV, Ye.D., red.; FRIDKIN, A.M., tekhn. red.

[Voltage increase on long a.c. lines during nonsymmetric short circuits to ground] Povysheniia napriazhenii v dlinnykh liniiakh peremennogo toka pri nesimmetrichnykh korotkikh zamykaniiakh na zenliu. Moskva, Gos.energ.izd-vo, 1958. 223 p. (Moscow. Vsesoiuznyi elektrotekhnicheskii institut. Trudy, no.64) (MIRA 12:2) (Electric lines) (Short circuits)

PHASE I BOOK EXPLOITATION

THE PROPERTY OF THE PROPERTY O

1170

. Vsesoyuznyy elektrotekhnicheskiy institut

- Wizkiye temperatury i redkiye gazy (Low Temperatures and Rare Gases)
 Moscow, Gosenergoizdat, 1958. 286 p. (Series: Its: Trudy, vyp. 61)
 2,260 copies printed.
- Ed. (title page): <u>Fastovskiy</u>, V.G.; Doctor of Technical Sciences; Ed. (inside book): Zhigarev, A.A.; Tech. Ed.: Larionov, G. Ye. Editorial Board of Series; Andrianov, K.A., Biryukov, V.G. (chief ed.), Butkevich, G.V. (deputy chief ed.); Granovskiy, V.L., Kalitvyanskiy, V.I., Timofeyev, P.V., Fastovskiy, V.G., Shemayev, A.M.
- FURPOSE: This book is intended for scientists and technicisms concerned with storing, handling, obtaining and utilizing atmospheric gases (especially oxygen and rare gases).
- COVERAGE: The volume is one of a series published by the All-Union Electrical Engineering Institute imeni V. I. Lenin. The Collection includes main projects carried out during the period 1947-1955 by scientists and technicians of the Low-temperature Laboratory headed by Doctor of Technical Sciences, Professor Card 1/5

CANADA CA

1170 Low Temperatures and Rare Gases V.G. Fostovskiy, with Acting Senior Scientist, Candidate of Technical Science Yu.V. Petrovskiy, and Senior Scientist, Candidate of Technical Sciences A.Ye, Rovinskiy. Engineer A.A. Vlasova and Senior Technician Z.N. Kosova took part in the experimental work. References are given at the end of each article. TABLE OF CONTENTS; Festovskiy, V. G., Professor, Doctor of Technical Sciences and Petrovskiy, Yu. V., Candidate of Technical Sciences. Several Questions on Obtaining Oxygen for 5 Technical Purposes Fastowskiy, V.G. and Petrovskiy, Yu.V. A Complex Set-up for Liquifying Hydrogen and Separating Neon-Helium Mixtures by the Condensation Method 25 Fastovskiy, V.G. and Petrovskiy, Yu.V. Set-up for the Liquification of Hellum Fastovskiy, V.G. and Rovinskiy, A.Ye., Candidate of Technical Sciences. Investigation of the Absorption of Rare Gases and Their Accompanying 48 Gases Card 2/5

Low Temperatures and Rare Gases 1170	
LOW TEMPETAGULA OR CALLED AND A COLUMN AND A	
Festovskiy, V.G. and Rovinskiy, A.Ye. The Adsorption Method of Separating Recon-Helium Mixture	67
Festovskiy, V.G. and Petrovskiy, Yu.V. Investigating Phase Equilibrium of Liquified Gases	99
Festovskiy, V.G. and Petrovskiy, Yu.V. Investigating Liquid and Vapor Equilibrium in the System Oxygen-Argon-Hitrogen	116
Fastovskiy, V.G. and Petrovskiy, Yu.V. The Influence of Argon on the Air Rectification Process	123
Fastovskiy, V.G. and Petrovskiy, Yu.V. Several Question. on the Technical Preparation of Argon	139
Fastovskiy, V.G, and Petrovskiy, Yu.V. Research on the Industrial Preparation of Krypton	154
Card 3/5	
High-voltage Mercury Arc Rectifiers	248:
CAPPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R00041251	0002-6"

Low Temperature and Rare Gases

Fastovskiy, V.G. and Rovinskiy, A.Ye. Investigation of Heat Emission in
a Spiral Channel

Fastovskiy, V.G. and Rovinskiy, A.Ye. Experimental Investigation of
Columns With Multi - layered Netted Fittings

AWAILABLE: Library of Congress

Card 5/5

TM/SD
1-18-59

105-58-3-7/31

AUTHORS:

Fastovskiy. V. G., Doctor of Technical Sciences, Professor,

Petrovskiy, Yu. V., Candidate of Technical Sciences

TITLE:

On the Possibilities of Intensifying the Cooling of Turbogenerators (O vozmozhnosti intensifikatsii okhlazhdeniya turbogeneratorov)

PERTODICAL:

Elektrichestvo, 1958, Nr 3, pp. 32 - 35 (USSR)

ABSTRACT:

First a survey is given on the possible ways of intensifying the cooling of turbogenerators, then the problem of the usefulness of an artificial hydrogen cooling (Ref 4) is investigated. Of the two possible aims pursued by such a cooling that one is more interesting which offers the possibility of increasing its output in obtaining the measurements of the effective parts. This aim is investigated here also in application to a 200 MW turbogenerator. The hydrogen cooling types possible for a cooling to 0°C are dealt with here: the application of a compression (vapor) cooling plant, of an absorption cooling device, and of a turbodetander (?). It is shown that from the standpoint of

Card 1/2

TO STATE OF THE PROPERTY OF TH

96-58-2-17/23 Fastovskiy, V.G., Doctor of Technical Sciences, AUTHORS:

Artym, R.I., Engineer and Rovinskiy, A.Ye., Candidate of

Technical Sciences

TITLE: The Boiling of Freon-11, Methylene Chloride and Benzene on a Horizontal Tube (Kipeniye freona-11, khloristogo metilena

i benzola na gorizontal'noy trube)

PERIODICAL: Teploenergetika, 1958, 5 No 2, pp. 77 - 80 (USSR)

CT: The boiling equipment for these tests, which is illustrated in Fig.1, consisted of a steel tube 170 mm diameter and ABSTRACT: 280 mm long, closed at the ends and enclosing a thick-walled, German-silver tube 8 mm diameter and 200 mm long, heated by electric current. The evaporated vapour was condensed and returned to the main tube. The thermal loading of the heating surface was determined from the electrical power consumed; temperatures were measured by thermocouples at appropriate places. The substances tested were chemically pure methylene chloride and nominally pure Freon-ll and benzene. Measurements of the boiling points of these liquids at atmospheric pressure showed that the Freon-11 and benzene were also comparatively pure. At the start of tests, the liquid was boiled for some hours to remove gases from it and the equipment. The heating tube surface became contaminated and was cleaned from time to time. Card 1/3

The Boiling of Freon-11, Methylene Chloride and Benzene on a

In the region of well-developed boiling, the experimental data are correctly represented by the equation:

 $\alpha = Aq^n$

which is valid when q is greater than 6 000 kcal/m²hour for CCl₃F and q is greater than 12 000 kcal/m²hour for CH₂Cl₂ and C₆H₆. The values of the constants in this formula are tabulated. The experimental results are also plotted in Fig.2, which clearly indicates the commencement of bubble formation. The test results in terms of the criterial mlationship of Kruzhilin are graphed in Fig.3. It is noticeable that although of the other liquids used, yet its heat-transfer coefficients on then discusses bubble formation during different phases of then discusses bubble formation during different phases of There are 3 figures and 11 references, 4 of which are Russian, Card2/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

CANCELENT TRANSPORTED TO THE TRANSPORTED AND A CONTROL OF THE PARTY OF

The Boiling of Freon-11, Methylene Chloride and Benzene on a Horizontal Tube

ASSCCIATION: All-Union Electrotechnical Institute

(Vsesoyuznyy elektrotekhnicheskiy institut)

AVAILABLE: Card 3/3

Library of Congress

1. Methylene chloride-Boiling 2. Benzene-Boiling 3. Freon-Boiling 4. Heating elements-Applications

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

<u> PERFECTION DE CONTRACTOR DE LE PROPERTO LE PROPERTO DE LA CONTRACTOR DE </u>

50V/96-58-8-15/22

AUTHORS: Fastovskiy, V.G. (Doctor of Technical Science) and Artym, R.I. (Engineer)

TITLE: An experimental Investigation of the Critical Thermal Load

> during Boiling of Binary Mixtures (Eksperimental'noye issledovaniye kriticheskcy teplovoy nagruzki pri kipenii

binarnykh smesey)

PERIODICAL: Teploenergetika, 1958 7 Nr 8, pp 74-78 (USSR)

ABSTRACT: This article reports an investigation of the critical thermal load at atmospheric pressure as a function of the composition for mixtures of methanol, propanol, isc-propanol, n-butanol, methylethylketone and iso-amyl alcohol in water. The experimental equipment is first described and the reasons why certain design features were chosen are explained: a schematic diagram appears in Fig 1. tests were made on a horizontal nickel wire 0.4 mm diameter and 50 mm long. An editorial note states that because of the small size of the heating surface, the tests are not characteristic of industrial conditions. The chemicals

Card 1/4 used were chemically pure, except for the n-butanol which was of technical purity. The critical point was determined

80V/96-58-8-15/22 An Experimental Investigation of the Critical Thermal Load during Boiling of Binary Mixtures

visually and by instruments. In the majority of aqueous solutions with small amounts of organic components the wire usually burnt out when the critical condition was reached. The critical thermal load as a function of composition for the system methanol/water is plotted in The broken line corresponds to water alone. Fig 2. maximum thermal load was obtained with a composition of 18% by weight methanol, and is double the load for water. Figs 3 and 4 display corresponding curves for iso-propanol/water and n-propanol/water. Again the results depend on the composition, and are typical for sclutions of unlimited mutual solubility. Figs 5, 6 and 7 give corresponding graphs for the binary systems comprising methylethylketone/ water, n-butanol/water and iso-amyl alcohol/water, which have limited mutual solubility. The limits within which single phase is not obtained are indicated in Figs 5 and 6 by vertical dotted lines. Thus in Fig 5 there are three parts of the curve; the first corresponds to a solution of Card 2/4 methylethylketone in water, the third to a solution of

An Experimental Investigation of the Critical Thermal Load during Boiling of Binary Mixtures

water in methylethylketone, whereas the second is transitional. Similar results were obtained for the system isoamyl-alcohol/water (Fig 7). The curve in I The curve in Fig 6 for the system n-butanol/water is continuous because the wire was always in a solution of water in n-butanol. all three systems there is a clearly-expressed maximum at low concentrations of the organic component in water. the solubility of the organic component becomes less, this maximum becomes higher and occurs at lower concentrations. Thus the critical thermal leading for the system isoamyl alcohol/water, at an alcohol concentration of C.5% weight, was three times that for water. These results are generally in line with other published work. The mechanism of the effect of small amounts of organic solvent on the critical thermal loading at which bubble boiling ceases is discussed. When the solution boils inside a mascent bubble it is mainly the low-boiling component that boils; the film Card 3/4 of liquid enveloping the steam bubble is enriched with the high-boiling component and, therefore, boils at a higher

THE STATE OF THE PERSON OF THE STATE OF THE

An Experimental Investigation of the Critical Thermal Load during Boiling of Binary Mixtures

temperature than the initial composition. Curves of this temperature difference as functions of composition are given in Figs 2 - 7 inclusive. Of course, small amounts of organic liquids in water have a considerable effect on such other properties as the surface tension and the wetting angle.

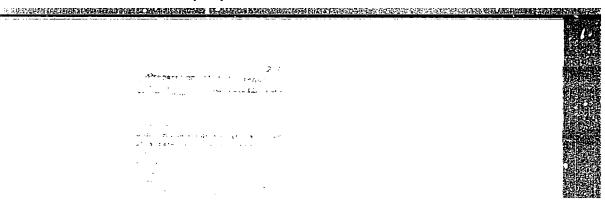
There are 8 figures, 8 literature references (2 English, 3 German, 3 Soviet)

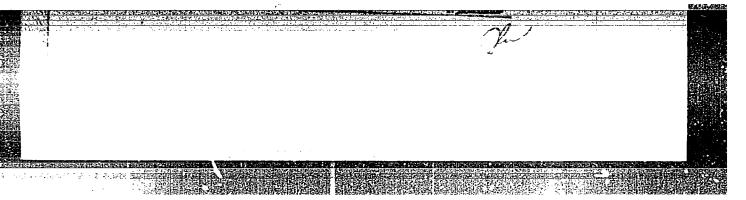
ASSOCIATION: Vsosoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute)

1. Cyclic compounds--Thermal effects 2. Cyclic compounds--Test methods 3. Cyclic compounds--Phase studies 4. Laboratory equipment--Applications

Card 4/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"





SOKOLOV, Nikolay Fikolayevich; ANDRIANOV, K.A., red.; AKOPYAN, A.A., red.;
BIRYUKOV, V.G., glavnyy red.; BUTKEVICH, G.V., red.; CHANOSKIY, V.L. red.;
OKRITENBERG, G.R., red.; ZABTRIMA, K.I., red.; KALITVIANSKIY, V.I., red.;
KLYARFEL'D, B.N.; SAKOVICH, A.A.; TIMOFFIRV, P.V.; PASTOVSKIY, V.G.;
TSEYROV, Ye.M.; FRIDMAN, A.Ya.; SHEMAYEV, A.M.; TIMOKHYMA, V.J., red.

[Methods for the synthesis of organopolysiloxanes] Metody
sintems politorganosiloksanov, Moskva, Gos.energ. izd-vo. 1959.
198 p. (Moscow, Vessolusnyi elektrotekhnicheskii institut.
Trudy, no.66)

(Siloxanes)

24,5200

S/096/59/000/01/014/023 E194/E484

AUTHORS:

.

Fastovskiy, V.G., Doctor of Technical Sciences and Petrovskiy, Turve Candidate of Technical Sciences

公司 (1995年) 1995年 | 19

TITLE:

Heat Transfer and Resistance During the Flow of Air Between Sheets with Heavy Spherical Projections

PERIODICAL: Teploenergetika, 1959, Nr 1, pp 65-68 (USSR)

ABSTRACT:

This article describes heat transfer and resistance tests on a plate type heat exchanger made of steel sherts I mm thick in which were stamped heavy spherical projections 8 mm diameter at 14 mm pitch both ways. The positions of the projections of the two sheets of which the heat exchanger was made were such that the projections in the one sheet came opposite the flat part of the other, as illustrated in Fig 1, so that the gas duct resembled a layer of spheres. The sheets were welded together with a space of 4 mm thick between them. The tests were made in a wind tunnel with a fan rated at 6000 m3/hr at heads up to 600 mm water. The heat exchanger was heated by steam at a pressure of 1 atm supplied in excess to avoid super-cooling of condensate and the condensate was collected. The experimental arrangements and instrumentation are

Card 1/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

69207 S/096/59/000/01/014/023 E194/E484

Heat Transfer and Resistance During the Flow of Air Between Sheets with Heavy Spherical Projections

described. Heat transfer was studied in the range of Reynolds numbers from 3870 to 9350 corresponding to mean air speeds of 11.2 to 26.6 m/sec. The air temperature at inlet was 23.5 to 30.2°C and at outlet 86.4 to 92.3°C. The heat transfer coefficient on the air side was from 128 to 233 kcal/m² hr °C, corresponding to Nusselt values of 39 to 71. The experimental data are plotted in Fig 3 and an empirical formula, corresponding to the results, is given in Expression (1), the corresponding formula for a flat rectangular channel with smooth sides is given by Expression (2). It will be seen that for the same linear air speed the heat transfer coefficient for the sheets with heavy spherical projection is 2.5 to 2.8 times higher than for smooth plates. This increase is evidently due to increased turbulence since the increase in surface area is only 23%. The aerodynamic resistance was studied over the range of Reynolds numbers from 3050 to 15950, the loss of head ranging from 33 to 505 mm water, corresponding to Euler

Card 2/4

S/096/59/000/01/014/023 E194/E484

Heat Transfer and Resistance During the Flow of Air Between Sheets with Heavy Spherical Projections

criteria of 7.25 to 4.20. data are plotted in terms of Euler's numbers as function of Reynolds Number and the corresponding empirical equation is given by Expression (3). The effectiveness of the new type of heat exchanger was compared with other types using the method recommended by Kirpichev described in Izvestiya Power Institute AS USSR, Vol 12, 1944. The comparative graph is plotted in Fig 5 and the superior performance of the new type heat exchanger is evident. The best type of heat exchanger to use depends on circumstances. It seems advisable to use a plate type heat exchanger for gas cooling when the gas is cooled by water and also for heat exchange between gas flows at different pressures when the gas at low pressure will be passed between the hemispherical sheets and the gas at higher pressure over the outsides. Heat exchangers of the type described are of simple construction and various metals may be

card 3/4

AUTHORS: Fastovskiy, V. G., Petrovskiy, Yu. V., SOV/64-59-2-15/23
Akchurin, R. A.

TITLE: Investigations of the Resistance and Efficiency of a Contact-plate Utilizing the Kinetic Energy of the Light Phase (Issledovaniye soprotivleniya i effektivnosti deystviya kontaktnoy tarelki, ispol'zuyushchey

kineticheskuyu energiyu legkoy fazy)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 2, pp 169-174 (USSR)

ABSTRACT: No constructional and individual data are available on the contact-plates devised by V. Kittel (Ref 1) which operate according to the principle of the utilization of kinetic energy of the rising light phase for a more intense mixing. In the present case contact-plates were constructed by employing the same principle. The plates were made of 0.5 mm steel plates with a certain arrangement of elliptic openings (Figs 1, 2). The total surface of the openings is 27% of the surface of the plate. Two types of plates were produced which are used in pairs. In one plate the

liquid flows from the middle to the periphery, in the second

Card 1/2

。 "我们我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是

Investigations of the Resistance and Efficiency of a SOV/64-59-2-15/23 Contact-plate Utilizing the Kinetic Energy of the Light Phase

it flows reversely. Two pairs of plates were tested on a test plant (Fig 3). Oxygen was desorbed from water (at an air current velocity of 1710-5000 kg/m²/hour, wetting density of 18600-40300 kg/m²/hour, and water temperature of 10°) and carbon dioxide from water (1855-4950 kg/m²/hour, 25500-42250 kg/m²/hour and 11°). The resistance of the plates described is lower by 2-3 times than that of perforated or bubble plates. The optimum velocity of the gas flow (at the above-mentioned wetting densities) is 0.9-1.0 m/sec. Under the afore-mentioned conditions a value E_{ML} = 0.82-0.88 for the

degree of efficiency according to Merfri with respect to the change in the liquid composition was found. Compared to the perforated and bubble plates the efficiency of the contact-plates described is higher, the resistance is lower and the degree of efficiency under optimum condition is equal. There are 9 figures and 13 references, 3 of which are Soviet.

Card 2/2

FASTOVSKIY, V.G.

s/064/60/000/004/003/006 B015/B060

AUTHORS:

Fastovskiy, V. G., Rovinskiy, A. Ye.

TITLE:

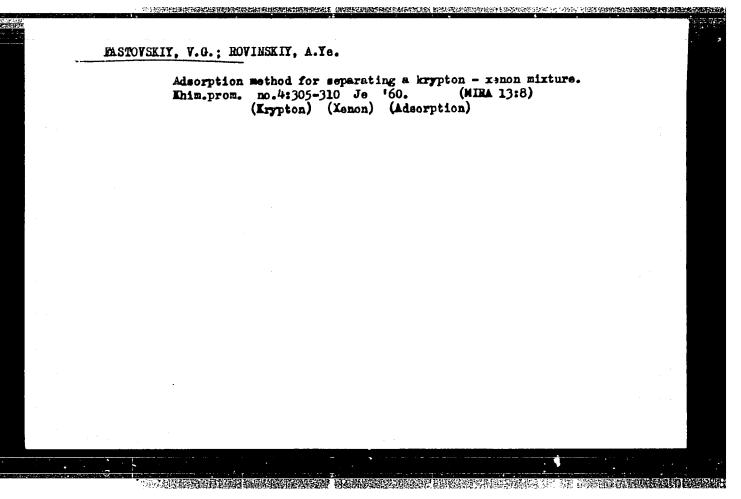
Adsorption Method of Separating a Krypton - Xenon Mixture

PERIODICAL:

Khimicheskaya promyshlennost', 1960, No. 4, pp. 41-46

TEXT: The authors worked out an adsorption method of separating a krypton - xenon mixture on an industrial scale. Experiments on the adsorption of the individual gases were conducted by means of a device and a method used in previous experiments with AT -2 (AG-2) coal (Ref. 2). They showed the similarity in the adsorption capacity of the two coal types AG-2 and AT -3 (AG-3) with respect to Kr and X, and the adsorbed amount can thus be calculated from the same interpolation equations. The adsorption of the xenon - krypton mixture was tested on an appropriate plant (Fig. 3), and it was found (Table 1, Figs, 4,5) that a 75-80% xenon concentration was attained at -60°C and a total pressure of 760 torr with a single adsorption in equilibrium. The fact is that the adsorption of krypton is strongly suppressed in the presence of xenon.

Card 1/2



69204

\$/096/60/000/06/015/025 24,5200 E194/E284

AUTHORS: Fastovskiv, V. G., Doctor of Technical Sciences and Petrovskiy, Yu. V., Candidate of Technical Sciences

TITLE: Heat Transfer and Resistance of Bundles of Tubes wit

Heat Transfer and Resistance of Bundles of Tubes with Continuous Spiral Ribbing in Square Arrangement

PERIODICAL: Teploenergetika, 1960, Nr 6, pp 69-72 (USSR)

ABSTRACT: Since the manufacture of tubes with continuous spiral ribbing was developed by TsNIITMASh they have come to be used in heat exchangers. A study was made of the heat transfer and resistance of bundles of aluminium and copper tubes in square arrangement using the experimental equipment and procedure described in an article by the same authors in Teploenergetika, 1959, Nr 1. In the tests steam was passed through the tubes and air blown over the outside. The main cooler design data and experimental results are tabulated and the empirical formula (1) is recommended to represent the experimental results. The aluminium tubes gave a 10% higher heat transfer coefficient than the copper tubes apparently because they were more freely spaced in the bundle and the relative height of ribbing is less. The

S/096/60/000/06/015/025 E194/E284

Heat Transfer and Resistance of Bundles of Tubes with Continuous Spiral Ribbing in Square Arrangement

> experimental results for resistance are well represented by expression (2). Tests made by other authors are in good agreement withthe present ones and indicate the high efficiency of these ribbed tubes. It is calculated that the bundle of aluminium tubes is 2.8 times lighter, 30% less in volume, 53% less in section, and 15% less in depth than the most successful bundle of tubes with wire ribbing described in an article by Tulin in Teploenergetika, 1958, Nr 3. There are 1 table and 7 references, 4 of which are Soviet and 3 English.

ASSOCIATION: Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Institute for Electrical Engineering)

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

s/080/60/033/007/016/020 a003/a001

AUTHORS:

Fastovskiy, V. G., Rovinskiy, A. Ye.

TITLE:

The Adsorption of Hydrocarbon Gases and Their Mixtures

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 7, pp. 1641-1653

TEXT: The separation of mixtures of hydrocarbon gases in order to obtain pure ethylene, propylene, etc. is one of the most important problems of modern chemical technology. The adsorption method is especially effective for separating mixtures of light hydrocarbons. The methods for calculating adsorption separation columns are insufficiently developed. The data for such calculations are incomplete. The isotherms of the adsorption of CH4, C2H2, C2H4, C2H6 and C3H6 at 0-20°C and C3H8 at 0-80°C on Al -3 (AG-3) activated coal and also CH4, C2H2 and C2H6 at 20°C on KCM(KSM) silicagel at pressures of p < 760 mm Hg are satisfactorily expressed by the potential theory of adsorption; the data for each adsorbent can be correlated by a universal characteristic curve (equation 2) or by a universal isotherm (equation 3). The values of the relative adsorption volatility for the mixtures investigated are constant in the whole range of the content of components, and the sum of the values of the

Card 1/2

S/080/60/033/007/016/020 A003/A001

The Adsorption of Hydrocarbon Gases and Their Mixtures

relative adsorption of the components is in all cases close to unity (equation 5). This circumstance makes it possible to obtain the system of equations (6) and (7), by means of which the equilibrium composition of the adsorbed phase and the adsorbed volumes of the mixture components can be calculated. The relative adsorption volatility of the C_2H_{ij} - C_2H_0 mixture in the case of adsorption on silicagel is 3 times greater than in the adsorption on coal. The efficiency of silicagel in the treatment of gas is lower, but it is more efficient for separating mixtures of such a type than coal. Z. N. Kosova helped in carrying out the measurements. There are 11 graphs, 1 diagram, 2 tables and 8 references: 4 Soviet, 3 English and 1 American.

SUBMITTED: February 16, 1959

Card 2/2

s/064/61/000/009/002/002 B110/B101

AUTHORS:

Petrovskiy, Yu. V., Fastovskiy, V. G., Royzen, I. I.

TITLE:

Use of finned pipes in crosscurrent exchangers with spirals

PERIODICAL: Khimicheskaya promyshlennost', no. 9, 1961, 58 - 63

TEXT: The present paper deals with heat exchange, hydraulic resistance, and efficiency of finned pipes in heat exchangers used for air fractionation. The authors used tempered copper pipes, 8 - 15 mm in diameter, with transverse fins arranged in spirals, which were obtained by plastic deformation by means of rolling. Rolling rate: 15 - 20 m/hr; pipe length: 20 m; inside diameter d_i: 4.7 mm; diameter of fin basis: 6.1 mm; outside fin diameter: D = 10.7 mm; mean fin thickness: δ = 0.38 mm; fin height: h = 2.3 mm; number of fins per meter: 625; fin spacing: t = 1.6 mm; specific external pipe surface: F = 0.0965 m²/m; coefficient for calculating the surface of the finned pipe: $\frac{1}{100}$ = $\frac{1}{100}$ =

Use of finned pipes in...

S/064/61/000/009/002/002 B110/B101

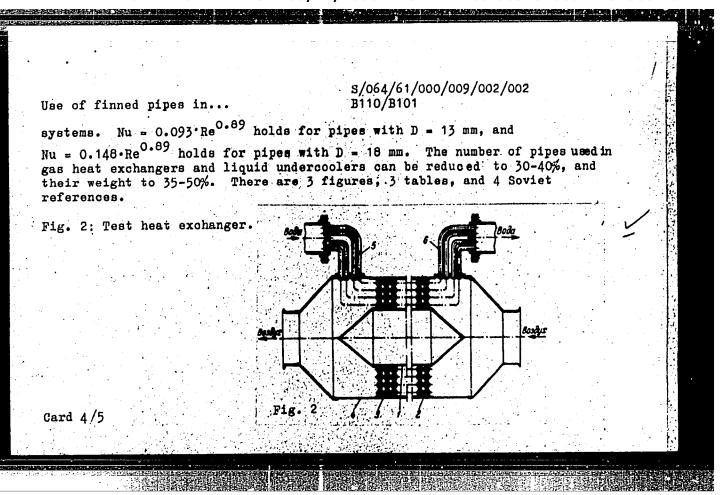
diameter core and serves for high-pressure heat exchangers (150-200 kg/cm 2) (admissible internal excess pressure = 400 kg/cm 2). The pipes (2) were wound round a brass pipe core (1) (Fig. 2) with an outside diameter of 100 mm, in four layers without space linings. The sense of winding alternated. Number of turns in the direction of the air current: 24 per layer; interstice ≈11.2 mm; space between fin edges: 0.5 mm. They are covered with felt (3) and coated with a 1 mm Cu foil (4). Four guiding surfaces provide good air distribution. The heat exchanger is 900 mm long, its outside diameter is 195 mm. The total length of pipes is 43.4 m, their external surface: 4.18 m^2 . A high-pressure fan (1) (Fig. 3) and an electric heater (2) are used for pumping air into the heat exchanger (3) from which cooled air is conducted through a pipe (4) (100 mm in diameter) with a diaphragm (5), a differential pressure gauge (6), and a simple water gauge (7) for measuring air consumption. A centrifugal pump (9) served for pumping cold water through an intermediate vessel (8) into vessel (3), and warm water into measuring vessel (10). (11) and (12) are differential water gauges. (11) indicates the drop in pressure of the air passing through (3), (12) indicates the pressure difference between inlet and outlet pipes of (3). Inlet and outlet temperatures were measured by the copper-Card 2/5

S/064/61/000/009/002/002 B110/B101

Use of finned pipes in ...

Card 3/5

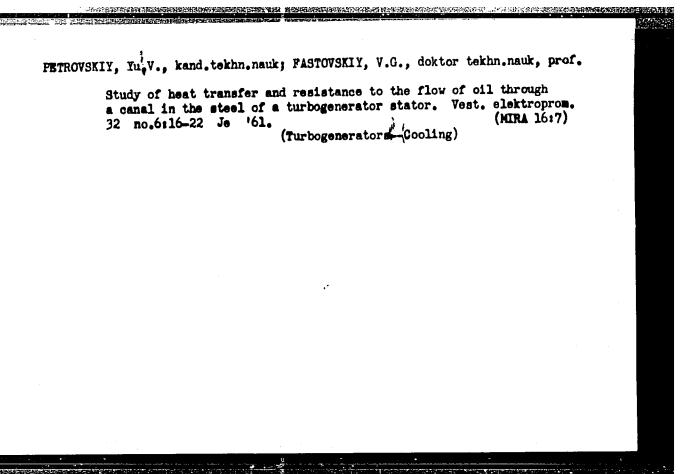
constantan thermocouples T_1 of T_2 , the temperature of water by T_3 and T_4 . The differential thermocouple T_5 - T_5 determined the differential in the temperatures of H_2 0 and air in the lower part of (3). The Harthermometer T_6 measured the air temperature behind (5). The consumption of air and water was controlled and periodically measured by sluice valves inserted into suction and pressure pipes, and by valves between (8) and (9), respectively. The exchanged heat amount Q was determined from temperature, water and air consumption. Heat exchange coefficient of the finned surface: $\alpha = 0.133 \,\lambda$ (W·d out μ)0.89/d out; μ = thermal conductivity of air; d out = outside diameter of pipe; W = velocity of air flow; μ = kinematic viscosity; pressure drop: μ 0 = 10 m(μ 1.82)gRe -0.27, where m is the number of turns in the direction of air flow, and μ 1 is the air density. In liquid and high-pressure heat exchangers, the reduction of weight is 65 - 70% due to the use of the above pipes. In medium-pressure gas heat exchangers it is 53 - 58% (saving general t of Cu per oxygen plant). It would be better to use 10.1.5 mm pipes for the latter, and 12.2 mm pipes for undercooling

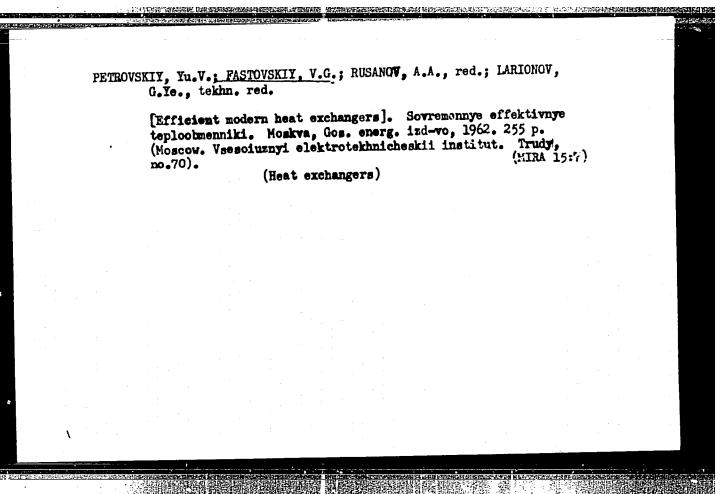


KAGAN, A.M.; FASTOVSKIY, V.G.; ROVINSKIY, A.Ye.

Heat transfer from a fluidised bed of solid particles to the coil pipe surface. Khim.prom. no.11:790-793 N '61. (MIRA 15:1) (Fluidisation) (Heat—Transmission)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"





5/096/62/000/003/007/008 E194/E455

45,513,19

210.5000 AUTHORS:

Gertsovskiy, V.A., Engineer; Fastovskiy, V.G., Doctor

在我们的现在是一个人的人,我们就是我的人的人,我们就是一个人的人,我们就是我们的人的人,我们就是一个人的人,我们就会会会会会的人,我们就会会会会会的人,我们就会

of Technical Sciences, Professor;

Rovinskiy, A.Ye., Candidate of Technical Sciences

TITLE:

Heat transfer during laminar unstabilized flow of

viscous fluid in a short annular duct

PERIODICAL: Teploenergetika, no.3, 1962, 68-70

Heat exchange often occurs in equipment with short ducts, for example in transformers with concentric layer windings and forced oil cooling and also in recent designs of heat exchanger. Because of numerous discontinuities in the heat exchange surfaces, heat transfer takes place over the entire length under hydro-A brief review of dynamically and thermally unstable conditions. previous work on this subject, particularly theoretical, is given. In the present experimental work mean values of heat transfer coefficient were determined whilst a viscous fluid (transformer oil) was flowing in a short annular duct with flow conditions that were hydrodynamically and thermally unstable. Oil at known temperature and flow rate equipment is described. Card 1/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

S/096/62/000/003/007/008 E194/E455

Heat transfer during laminar ...

is passed through the test devices in which the cylinder walls are electrically heated. Four variants of duct were used with different cylinder diameter ratios (d2/d1), different equivalent duct diameters dy and lengths . Particular care was taken to prevent heat losses, which can be very severe in short models. The errors are estimated and considered reasonable. The tests covered Reynolds numbers in the range 202 to 2170 and Nusselt numbers in the range 40 to 210. The results are found to lie close to a line corresponding to the following equation

Nu = 0.17 Re^{0.5} + 0.7dg/ ℓ $\left(\frac{d_2}{d_1} \frac{\ell}{d_2} \right)^{1/3}$.

Values of Nu were also calculated by the method of E.Pohlhausen (Ref.7: Ztschr. angew. Mat., Mech., Bd. 1, S.115-121, 1921): the greatest difference between the calculated and experimental values of Nu were + 19%, and the mean error of the empirical equation + 15%. The intensity of heat transfer in an annular duct heated from one side depends entirely on the properties of the Card 2/3

Heat transfer during laminar ... E194/E

S/096/62/000/003/007/008 E194/E455

fluid, its conditions of flow and the duct geometry. The conditions of heating (constant heat input or constant temperature) and the presence of very rough duct walls have no appreciable influence on the rate of heat transfer. There are 3 figures, 2 tables and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute)

Card 3/3

X

PETROVSKIY, Yu.V.; FASTOVSKIY, V.G.; ROYZEN, L.I.

Heat transfer and hydraulic resistance during the lengthwise flow of gas around transverse fin tubes. Khim.prom. no.6:433-438

Je '62. (MIRA 15:11)

(Fipe--Hydrodynamics) (Heat--Transmission)

FASTOVSKIY, V.G., doktor tekhn. nauk, prof.; ROVINSKIY, A.Ye.; PETROVSKIY, Yu.V.; PANASENKOVA, Ye.I., red.

[Inert gases] Inertnye gazy. Moskva, Atomizdat, 1964. 302 p. (MIRA 17:12)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

。 1985年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1

PETROVSKIY, Yu.V.; FASTOVSKIY, V.G.; GERTSOVSKIY, V.A.

Plate-contact apparatus for the rectification and fractional condensation of binary mixtures. Khim. prom. 40 no.10:741-746 0 '64. (MIRA 18:3)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

SWT(m)/EPF(c)/EPF(n)-2/EWP(t)/T/EPR/EWP(b) Fr-4 Ps-4

ACCESSION NR: AP5005564

8/0080/65/038/002/0328/0335

AUTHOR: Rovinskiy, A. Ye.; Fastovskiy, V. G.; Kosova, Z. N.

TITLE: Adsorption of care gases and their accompanying gases synthetic seclites

SOURCE: Zhurnal prikladnoy khimfi, v. 38, no. 2, 1965, 328-335

en miller i en ero nompara estación detallocado

TOPIC TAGS: synthetic scolite, rare gas, gas chromatography, gas adsorption, argon purification, adsorption isotherm, molecular sieve

ABSTRACT: The adsorption of helium, neon, argon, krypton, xenon, nitrogen, and have a was studied at temperatures corresponding to summercial and trace with a summercial and trace with summercial summercial and summercial and summercial and summercial summercial and summercial and

Card 1/2

是我们的现在是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们们也没有一个人的人的人,我们就是一个人的人的人,我

L 3265F-65

ACCESSION IR: AP5005564

spproximately 5-10% oxygen from its mixtures with argon at 90K on zeolite type NaA showed the possible purification of argon to a level of 0.004 volk 0. The purification decreased slightly with a reduction in contact time. Admixture of nitrogen suppressed the oxygen adsorption. Zeolite GaA was shown to be applicable for separating neon-helium mixtures at 78K, the adsorption of neon being higher and that of helium lower than on activated charcoal Ag-2. The technological advantages of separating argon-oxygen with the described apparatus are outlined. Orig. art. has: 8 figures and 2 tables.

ASSOCIATION: None

SURMITTED: 04Feb63

ENCL: 00

SUB CODE: IC

NO REF SOV: 004

OTHER: 006

Card 2/2

NADOL'NIKOV, A.G.; FASTOVSKIY, V.G.; PETROVSKIY, Yu.V.

Miniature refrigerating machine. Prib. i tekh. ekep. 3 no.6:
188-190 N-D '63. (MIRA 17:6)

1. Vsesoyuznyy elektrotekhnicheskiy institut.

NOSKOV, I.C., kand.sel'skokhoz.nzuk (Tashkent); PONOMARENKO, G.Ya.;
ZAKRIVIDOROGA, S.P.; ZAKRIVIDOROGA, Z.S.; LIFSITS, D.V.;
LYDEOVSKAYA, P.I.; POLOTAY, V.A.; TARAKHOVSKIY, M.L.;
FASTOVSKIY. V.L.

Letters to the editor. Zashch. rast. ot vred. i bol. 6
no.8:10 Ag '61. (MIRA 15:12)

1. Vsesoyuznaya stantsiya po raku kartofelya Vsesoyuznogo
instituta zashchity rasteniy i Chernovitskiy meditsinskiy
institut. (Plants, Protection of)
(Synchytrium—Toxicology)

Primary cancer of the appendix vermiformis associated with peritoneal cercinomatosis. Nov.khir.srkh. no.4:66-67 JI-Ag '57.

(MIRA 10:11)

1. Kafedra patologicheskoy anatomii (zav. - doktor med. nauk N.M.Shinkorman) Chernovitakogo meditainskogo institute.

(APPENDIX (ANATOMY) -- CANCER)

(PERITOMEUM -- CANCER)

A case of endocarditis lenta with isolated affection of the valves of the pulmonary artery in patent duotus arteriosus. Vrach.delo no.1:1313-1314 D '58.

1. Prosektura (sav. - prof. N.M. Shinkerman) Chernovitskoy oblastnoy klinicheskoy bol'nitsy.

(ENDOCARDITIS)

(PULMOSARY ARTERY--DISEASES)

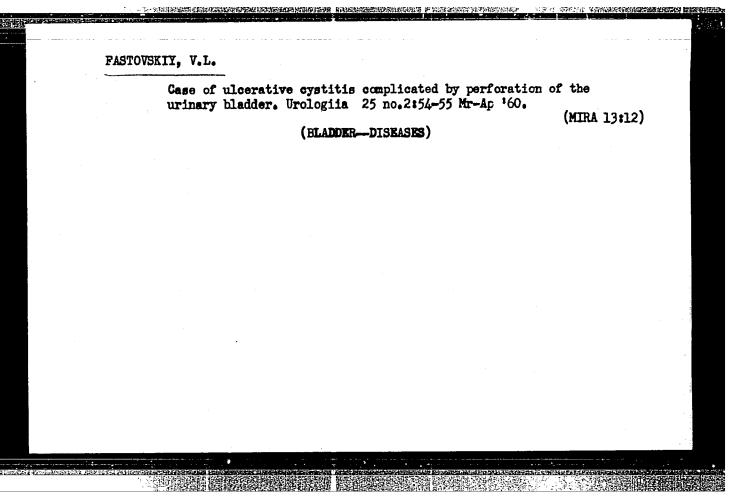
FASTOVSKIY, V.L.

Repeated paradoxical thromboembolism with obtuartion of the fenestra ovalis. Vrach.delo no.2:189-191 F 60. (MIRA 13:6)

1. Kafedra patologicheskoy anatomii (sav. - prof. N.M. Shinkerman) Chernovitskogo meditsinskogo instituta.

(EAR--DISEASES) (EMBOLISM)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"



TARAKHOVSKIY, M.L.; FASTOVSKIY, V.L. Pharmacotherapy and pathological anatomy of experimental hypertension Vrach.delo no.5:489-493 My '60. (MIRA 13:11) 1. Kafedra farmakologii (zav. - prof. S.P.Zakrividoroga) i kafedra patologicheskoy anatomii (zav. - prof. N.M.Shinkerman) Chernovitskogo meditsinskogo instituta. (HYPROTENSION) (AUTONOMIC DRUGS) (AUTONOMIC DRUGS)

ZAKRIVIDOROGA, S.P.; ZAKRIVIDOROGA, Z.S.; LIPSITS, D.V.; LYUBOVSKAYA, P.I.; POLOTAY, V.A.; TARAKHOVSKIY, M.L.; FASTOVSKIY, V.L.

Toxicity for animals of the cancerous potato. Vop. pit. 21 no.5: 58-66 S-0 '62. (MIRA 17:5)

l. Iz laboratorii biokhimii Vsesoyuznoy nauchno-issledovateliskoy stantsii po paku kartofelya i kafedr farmakologii, patofiziologii, patoanatomii i gistologii meditsinskogo instituta, Chercovtsy.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

FASTOVSKIY, V.L. (Chernovtsy) Role of the thebesian vessels in the compensation mechanisms of cardiac insufficiency. Vrach.delo no.3:81-83 Mr '63. (MIRA 16:4) 1. Kafedra patologicheskoy anatomii (zav. - prof. N.M. Shinkerman) meditsinskogo instituta i pervaya gorodskaya bol'nitsa. (CARDIAC VEIN) (HEART...DISEASES)

FASTOVSKIY, V.L. (Chernovitsy)

Functional and anatomical characteristics of the thebesian vessels in the normal and hypertrophic heart. Arkh. pat. 26 no.9:24-30 164. (MIRA 18:4)

l. Kafedra patologicheskoy anatomii (zav. - prof. N.M. Shinkerman) Chernovitskogo meditsinskogo instituta i Chernovitskaya l.ya gorodskaya klinicheskaya bol'nitsa (glavnyy vrach L.F. Kimlach).

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

FASTOVSKIY, V.L. (Chernovtsy, ul. Klary TSetkin, 9, kv.2)

The besian vessels in the hypertrophied heart. Arkh. anat., gist. i embr. 47 no.8:96-102 Ag 64. (MIRA 18:4)

1. Kafedra patologicheskoy anatomii (zav. - prof. N.M.Shinkerman) Chernovitskogo meditsinskogo instituta i Chernovitskaya 1-ya gorodskaya bol'nitsa.

DETINKO, F.M., inzh.; FASTOVSKIY, V.M., inzh.

Calculation of annular components with consideration of radial axisymmetrical loads. Vest. elektroprom 34 no.6:73-77 Je '63.

(Electric machinery)

DETINKO, F.M., inzh.; FA:TOVSKIY, V.M., inzh.

Mechanical calculation of the pole coil of a synchronous machine. Elektrotekhnika 35 no.6:42-43 Je '64.

(MIRA 17:8)

PETROVSKIY, Yu.V., kand.tekhn.nauk; FASTOVSKIY, V.P., doktor khim.nauk, prof.; ROYZEN, L.I., inzh.

Possibility for the use of plate-type finned heat exchangers in air-fractionating apparatus. Khim.mashinostr. no.5:8-12 S-0 '63. (MIRA 16:10)

FASTOVSKIY, Ya. A. Cand Med Sci -- (diss) "X-ray diagnas of diseases of the labyrinths of the ethmoid." Mos. 1958. 11 pp(Min of Health RSFSR. Mos Med Stomatological Inst), 200 copies (KL, 14-58, 118)

-121-

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

的现在分词形式的现在分词,这个是是一个人,但是是是这个人,这个人的人,我们就是这些人,我们就是我们的,我们就是我们的是,我们就是我们就是我们的,我们就是我们,我们

NEVSKIY, B.N.; FASTOVSKIY, Ya.A., kand. med. nauk

Possibilities of early A-ray diagnosis of lesions of the cervical portion of the esophagus caused by foreign bodies. Vest. rent. 1 rad. 38 no.6:45-48 N-D 163.

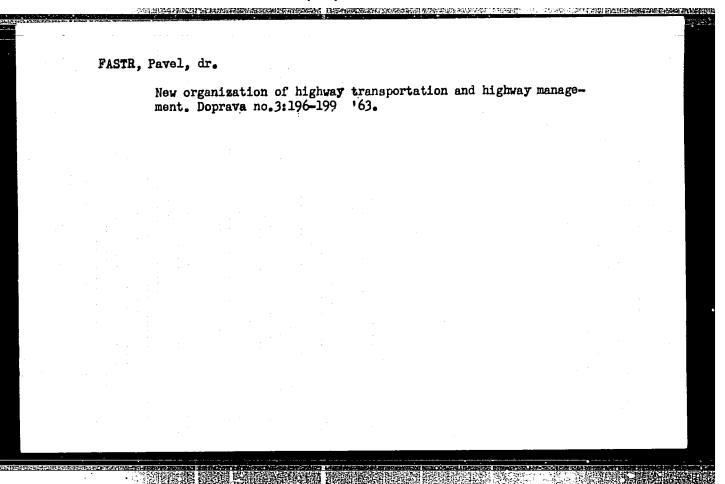
(MIRA 17:6)
1. Tz rentgenovskogo otdeleniya (zav.- prof. G.M. Zemtsov)
Gosudarstvennogo nauchno-issledovsteliskogo instituta ukha,
goria, i nosa (direktor - prof. N.A. Bobrovskiy) Ministerstva
zdravookhraneniya RSSSR.

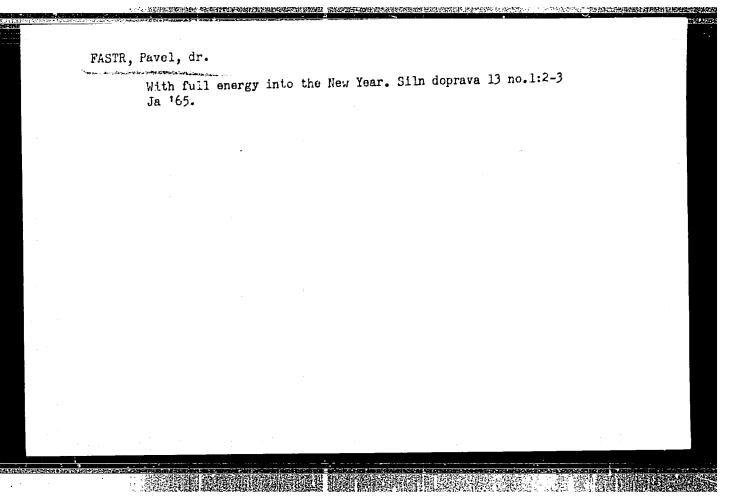
APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

三三、黑水河,是这些种的,我们的这些是是的性势,是不明的主要的的关系,就是这种的主要的这些强力。但是这种,但是这种人的主义,这一个一个是这种人的动物,也是这种人的

FASTR, Pavel, dr.

One year since the law on highways went into effect. Sil doprava 10 no.12:15 D $^{1}62$.





S/193/61/000/001/008/008 A005/A001

AUTHORS:

Grigulis, Yu.K., Fastritskiy, V.S.

TITLE:

The Universal Device VI -3M (UP-3M) for Checking the Thicknesses

of Coverings and Properties of Surface Layers

PERIODICAL:

Byul. tekhn.-ekon. inform., 1961, No. 1, pp. 42-44

TEXT: The Laboratoriya avtomatizatsii proizvodstvennykh protsessov (Laboratory for Automation of Production Processes) of the Institut mashinovdeniya AN Latviyskoy SSR (Institute of Science of Machines at the Academy of Sciences of the Latviyskaya SSR) developed a high-frequency device UP-3M for measuring the thicknesses of arbitrary coverings on arbitrary base materials under the condition that their electrical conductivities or the magnetic permeabilities differ by at least a few percent. The high sensitivity of the device permits also the measurement of surface layer properties of components or their coatings over a very wide range: the electric conductivity, the magnetic permeability, the homogeneity degree of the chemical composition and the thermal treatment, the porosity, the surface fineness, the presence and magnitude of surface cracks, the amplitudes and frequencies of the vibrations of mechanical components. The operation principle of the device Card 1/4

8/193/61/000/001/008/008 A005/A001

The Universal Device II -3 M (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

is as follows: a high-frequency electromagnetic flux of an emitter induces in the surface layer of the component eddy currents causing energy losses and an electromagnetic counter-flux; the magnitude of losses and electromagnetic counter-flux depends on the electromagnetic properties of the surface layer or on the distance between the emitter and the component. The device consists of the following units: supply with electronic stabilizer, h.f. generator, measuring device with emitter, amplifier, and indicator. The supply unit includes the transformer, two semiconductor bridge rectifiers, the electronic stabilizer made up of valves and a stabilivolt; the filament voltage is stabilized by a harreter. The generator has two circuits with electron coupling (so called Schembel generator with series connection of the circuits) having high frequency stability within wide limits independent of the load variability. The measuring unit is a T-shaped overlapping bridge whose responsive element is the special transducer in the form of a coil placed in a specially shaped ferrite concentrator. The bridge is adjustable by a capacitance selector, a variable capacitor, resistance selector, and potentiometer. The bridge input voltage is 1.4-1.6 v independent of the balancing degree. The bridge

Card 2/4

S/193/61/000/001/008/008 A005/A001

The Universal Device 10 -3M (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

output voltage is fed into the resonance amplifier input through a resistance, a potentiometer, and a separation capacitor. The resonance amplifier permits the separation of the fundamental harmonic. The resistance serves for the widening of the pass band. The amplification factor of the amplifier is 100. The indicator unit consists of the detector and the d.c. amplifier with a microammeter in its anode circuit. The measurement can be carried out by both methods of unbalance and two parameters. In the former case, the device is balanced and tuned with the transducer on the standard basis. For measuring different coverings on steel and nonmagnetic metals or the thicknesses of different foils applied to a nonconductive base, calibration graphs are added to the device; if the electromagnetic properties of the base and covering materials differ sharply, it is convenient to perform the measurement with the transducer removed from the component by a few millimeters. The measuring method of two parameters is based on the possibility of direct fixing of the changes of the active and induced transducer resistance, if the transducer is contacted with specimens of different materials, with different covering or different finish degree; for these measurements special diagrams must be plotted. This method makes it possible to measure simultaneously two parameters Card 3/4

S/193/61/000/001/008/008 A005/A001

The Universal Device 31-311 (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

THE CONTROL OF THE SECOND CONTROL OF CONTROL OF WHICH CONTROL OF C

of a covering or a surface layer, for instance, electric conductivity and magnetic permeability, or the thickness of the covering or the surface layer and its electric conductivity. The sensitivity of the device to variations of the environmental temperature is a disadvantage, which requires additional balancing at an environmental temperature exceeding 40°C, whereby the sensitivity of the device does not change. Moreover, when using manganese-zinc ferrites for the transducer concentrator, the transducer parameters become generally better, and the influence of the environmental temperature considerably decreases. The manufacture of a lot of 500 pieces of the device UP-3M is included into the plan for 1961 according to the resolution of the Nauchno-tekhnicheskiy komitet 1 sovnarkhoz Latviyskoy SSR (Scientific-Technical Committee and Sovnarkhoz of the Latviyskaya SSR). There is 1 photograph.

Card 4/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWP(1)
27509 SOURCE CODE: UR/3171/64/015/000/0221/0226
IJP(c)/ JD/WW/HW L 8316-66 ACC NR. AT5027509 8.; Belevitnev, V. R. AUTHOR: Fastritskiv V ORG: Polytechnic Institute, Riga (Politekhnicheskiy institut) TITLE: Nondestructive control of double-layer coatings SOURCE: Riga. Politekhnicheskiy institut. Uchenyye zapiski, v. 15, 1964. Avtomatizatsiya proizvodstvennykh protsessov v mashinostroyenii i priborostroyenii (Automation of production processes in machinery and instrument manufacture), no. 3, 221-226 TOPIC TAGS: specialized coating, measuring instrument, nickel, cobalt, deposition ABSTRACT: Devices for nondestructive control of galvanic coatings are not sufficiently perfected yet although there exist setups utilizing eddy currents which seem quite promising for single-layer control. The possibility of simultaneous control of double layer has been mentioned in the literature but in practice such measurements have not yet been attempted. The present authors analyze the UP-3M device developed by the Institute of Automation and Mechanics, AN LatvSSR (Institut avtomatiki i mekhaniki AN LatvSSR) with the aim of extending its usefulness to double-layer control. The device contains a generator, a T-shaped bridge, a cathode follower, a resonant amplifier, a detector, a DC amplifier, and an electronically stabilized power supply. The weakest links in the operating chain were the bridge and the AC Card 1/2

ACC N	16-66 NR. AT	50275	09										·		0	
implii	fier.	The a	rticle	lescr	ibes i	n detai	1 the	mod	ification	ons inti	roduce	d into the	ese un	its whi	ch	
substr	catum.	It is	noted	in co	nclus	ion tha	t the	modi	ficatio	ns desc	cribed	may be rt. has:	accon	iplishe	a į	
	figure		. WILL	ous bu	Domi	tidi De	. acta		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
SUB C	CODE:	MM,	IE, E	E / 8	UBM	DATE	00	/ OR	IG RE	F: 007			•			I
												,		•		
							. '									
										•	-		•			
							•					-	•	•		
			· · · .									- -				
					. :		: • .							:		
				•								-		1		•
				•							٠					
								:								
	_			-:										•		-
0					erio Alberta											
Card	2/2												u V			

KIFER, I.I.; FASTRITSKIY, V.S.; MIRMAN, B.A.

Calculating the resistance of a coil located above an electroconductive ferromagnetic half space. Defektoskopiia 1 no.3:62-70 (MIRA 18:8)

1. Rizhskiy politekhnicheskiy institut.

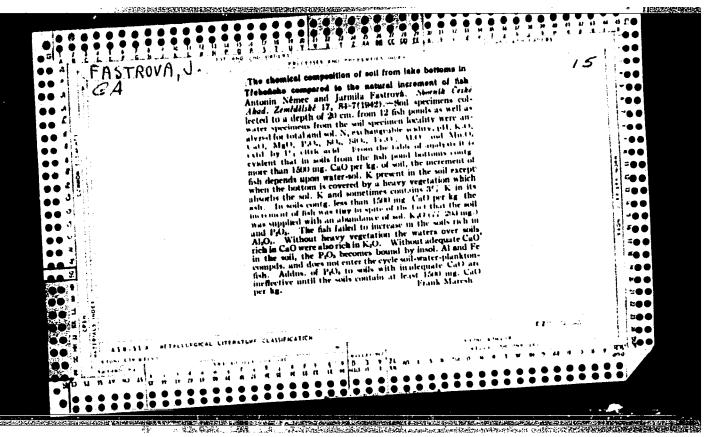
APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510002-6"

KIFER, I.I.; FASTRITSKIY, V.S.

Selecting operating conditions of a superposed transducer placed above a ferromagnetic half space. Defektoskopiia 1 no.4:32-37 *65. (MIRA 18:12)

1. Rizhskiy politekhnicheskiy institut.

	L 27647-66 EWP(c)/EWP(k)/EWT(d)/EWP(h)/ETC(m)-6/EWP(1)/EWP(v)		
٦	ACC ND. ADEO1841Q SOURCE CODE: UNVOSCITOS/ SOURCE CODE:		
	I was a second of the second o		
	ORG: Riga Polytechnic Institute (Rishskiy politekhnicheskiy institut) TITLE: Designing applied transducers with ferrite cores	- 134 - 127	
	COURCE. Defektoskopiys. No. 0. 1707, 17-27		
	TOPIC TAGS: ferrite, ferromagnetic material, magnetic permeability		
	ABSTRACT: On the basis of colution of the problem on the induced resistance		
	I a said (althout a some) interesting with a part of all artitud mouse va		
	ferromagnetic material, the designing of applied colle with the designing of applied collections.		
	and an approved the war togething to obtain an approved		
	I I I I I I I I I I I I I I I I I I I		
	mate method of designing applied transducers with two or most widely are milest types of ferrite cores, using the earlier developed method of designing coils types of ferrite cores, using the earlier developed method of designing coils.		100
	mate method of designing applied transducers with two or most widely and the types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability without core. By determining, experimentally or analytically, the permeability without core. By determining, experimentally or analytically, the permeability without core.		
	mate method of designing applied transducers with two or most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used.		6.
	mate method of designing applied transducers with two or most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used.		
	mate method of designing applied transducers with two of most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20 formulas. (JPRS)		
	mate method of designing applied transducers with two of most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20 formulas. (JPRS)		
	mate method of designing applied transducers with two of most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20		
	mate method of designing applied transducers with two of most widely allowed types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20 formulas. (JPRS)		
	mate method of designing applied transducers with two of most widely in types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20 formulas. /JPRS/ SUB CODE: 20 / SUBM DATE: 080ct65 / ORIG REF: 008 / OTH REF: 001		
	mate method of designing applied transducers with two of most widely like types of ferrite cores, using the earlier developed method of designing coils without core. By determining, experimentally or analytically, the permeability of their shape, this method can be used for other shapes and sizes of cores. Preliminary data allows one to consider that the proposed method can be used even during designing of coils designated for inspecting articles made from non-ferromagnetic materials. Orig. art. has: 3 figures, 4 tables and 20 formulas. /JPRS/ SUB CODE: 20 / SUBM DATE: 080ct65 / ORIG REF: 008 / OTH REF: 001		



FASTYKOVSKAYA, Ye. D., Candidate of Med Sci (diss) -- "The problem of diagnosing cancer of the mammary gland (Roentgenography and investigation with radioactive phosphorus P-32)". Rostov na Donu, 1959. 11 pp (Rostov na Donu State Med Inst), 200 copies (KL, No 21, 1959, 121)

	Vactorathy al	browned by Y	mason Vont	Vest. rent. i rad. 36 no.6:49-50				
	N-D 61.	oberved by A	rays. vest	, 16.10, 1 Tau	(MIRA 15:2)			
1	l. Iz kafedr Rostovskogo-1	y rentgenolog na-Donu medit	ii i radiole sinskogo in: (BREASTR	ogii (zav stituta (dir. ADIOGRAPHY)	prof. A.I.Dombrovs - prof. P.P.Koval	kiy) enko).		